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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,217	08/14/2006	David John Moody	056258-5112	1404
9629 7590 12/16/2008 MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW			EXAMINER	
			OLSON, ERIC	
WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
			1623	
			MAIL DATE	DELIVERY MODE
			12/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/550,217 MOODY ET AL. Office Action Summary Examiner Art Unit Eric S. Olson 1623 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 22 September 2005. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9.11-15 and 24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 11-15 is/are allowed. 6) Claim(s) 1.2.4.6.7.9 and 24 is/are rejected. 7) Claim(s) 3.5 and 8 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 9/22/2005, 8/14/2006.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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Detailed Action

This application is a national stage application of PCT/GB04.01196, filed March 19, 2004, which claims priority to foreign application GB0306657.8, field March 24, 2003. Claims 1-9, 11-15, and 24 are pending in this application and examined on the merits herein.

Applicant's preliminary amendment submitted September 22, 2005 is acknowledged wherein claims 1, 4, 7, and 11-15 are amended, claims 10 and 16-23 are cancelled, and new claim 24 is introduced

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 6, 7, 9, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuji et al. (Reference included with PTO-1449)

Fuji et al. discloses a method for the stereoselective synthesis of deoxribonucleotide phosphorothioates. (p. 3395 paragraphs 1-2) In particular, Fuji et al. discloses a method wherein an internucleotide acyl phosphonate group is treated with TMS-chloride to produce a TMS-phosphite internucleotide linkage, and then treated with elemental sulfur to produce a TMS-phosphorothioate intermediate which decomposes to an unprotected phosphorothioate. (p. 3397 figure 1, p. 3399 synthetic method at top

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of page) This TMS phosphorothioate intermediate is reasonably considered to be a sialylated internucleotide linkage according to the instant claims, and a process of oxidizing a silyl phosphite according to instant claim 9. Fuji et al. does not disclose a compound wherein the silyl group has 4 or more carbons.

It would have been obvious to one of ordinary skill in the art at the time of invention to practice the compound and methods of Fuji et al. using a silyl group having 4 carbon atoms. it is well established that the substitution of methyl for hydrogen on a known compound is not a patentable modification absent unexpected or unobvious results. See *In re* Lincoln, 126 USPQ 477, 53 USPQ 40 (CCPA 1942); *In re* Druey, 319 F.2d 237, 138 USPQ 39 (CCPA 1963); *In re* Lohr, 317 F.2d 388, 137 USPQ 548 (CCPA); *In re* Hoehsema, 399 F.2d 269, 158 USPQ 598 (CCPA 1968); *In re* Wood, USPQ 148 (CCPA 1977); *Ex parte* Fauque, 121 USPQ 425 (POBA 1954); *Ex parte* Henkel, 130 USPQ 474, (POBA 1960) Therefore the replacement of methyl with ethyl is seen to be an obvious modification of the prior art.

Thus the invention taken as a whole is prima facie obvious.

Conclusion

Claims 1, 2, 4, 6, 7, 9, and 24 are rejected. Claims 11-15 are seen to be allowable. Claims 3, 5, and 8 are objected to for depending from a rejected base claim but would be allowable if rewritten in independent form incorporating all the limitations of the rejected base claim and any intervening claims.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric S. Olson whose telephone number is 571-272-9051. The examiner can normally be reached on Monday-Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Anna Jiang can be reached on (571)272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Eric S Olson/ Examiner, Art Unit 1623 12/11/2008

/Shaojia Anna Jiang/ Supervisory Patent Examiner, Art Unit 1623